

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

NEW RIVER @ THE INTERNATIONAL BOUNDARY - CALEXICO, CALIFORNIA
MARCH 2009 WATER QUALITY DATA

Field Measurements:

DATE	TIME	TEMP	PH	DO	EC	TURBIDITY
(MM/DD/YY)	(HH:MM)	(°C) ¹		(mg/l) ²	(µmhos/cm) ³	(NTU) ⁴
03/25/09	13:45	18.95	7.69	7.52	6209	27.3

Field Observations:

3/25/09 13:45- Water color olive green. No Foam. No Odor. Sky clear. Breezy 0-5 (mph).
Ambient air temperature 86 °F. Initial %D.O. 100.8. Final %D.O. 102.

Bacterial Analysis:

DATE	TIME	ANALYSIS METHOD ⁵	AVERAGE FECAL COLIFORM ⁶
(MM/DD/YY)	(HH:MM)		(MPN/100ml) ⁷
03/25/09	11:55	Multiple Tube Fermentation	56,667

¹ Water Temperature is reported in units of degrees Celsius (°C).

² Dissolved Oxygen (DO) is reported in units of milligrams per liter.

³ Electrical Conductivity (EC) is reported in units of micromhos per centimeter.

⁴ Turbidity is reported in units of nephelometer turbidity units (NTUs).

⁵ Bacterial analysis completed by ATS Laboratory in Brawley, CA.

⁶ Three bacterial samples were collected and analyzed. The analysis results were averaged.

⁷ Fecal coliform density is reported in units of Most Probable Number (MPN) per 100 milliliters.

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Chemical Analysis:

E.S. BABCOCK & SONS, INC. RIVERSIDE, CA			CONCENTRATION (mg/l) ⁸
CONSTITUENT (GRAB) ⁹	METHOD	REPORTING LIMIT ¹⁰	MARCH 2009
Total Hardness	SM3120B	6.0	1100
Calcium	EPA200.7	2.0	220
Magnesium	EPA200.7	2.0	120
Total Alkalinity	SM2320B	3.0	290
Hydroxide	SM2320B	3.0	ND ¹¹
Carbonate	SM2320B	3.0	ND
Bicarbonate	SM2320B	3.0	360
Sulfate	EPA300.0	2.5	1000
Ammonia-Nitrogen	SM4500NH3H	0.40	5.9
Nitrate as N	EPA300.0	0.20	0.79
Nitrite as N	SM4500NO2B	0.10	ND
Kjeldahl Nitrogen	EPA351.2	1.0	9.6
Ortho Phosphate-P	SM4500PE	0.050	0.39
Total Phosphorus	SM4500PBE	0.05	0.90
Total Suspended Solids	SM2540D	5	30
BOD	SM5210B	10	16
COD	SM5220D	10	130
Oil & Grease (HEM)	EPA1664A	5.0	ND
Phenols	EPA420.4	0.020	ND
Turbidity (in NTU units)	SM2130B	0.20	NA ¹²
MBAS	SM5540C	0.05	0.52

⁸ The concentrations are reported in units of milligrams per liter (mg/l).

⁹ Grab water samples were collected on March 25, 2009.

¹⁰ The reporting limit is the reportable detection limit of the analysis.

¹¹ The analysis reported the constituent concentration as non detect.

¹² This constituent was not analyzed for.

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E.S. BABCOCK & SONS, INC. RIVERSIDE, CA			CONCENTRATION ($\mu\text{g/l}$) ¹³
CONSTITUENT (GRAB)	METHOD	REPORTING LIMIT	MARCH 2009
As-Arsenic	EPA200.8	5.0	5.3
Cd-Cadmium	EPA200.8	2.0	ND
Cr-Chromium(total)	EPA200.8	20	ND
Cu-Copper	EPA200.8	10	21
Pb-Lead	EPA200.8	10	ND
Se-Selenium	EPA200.8	5	8.1
Zn-Zinc	EPA200.8	10	10
Hg-Mercury	EPA200.8	0.50	ND

¹³ The concentrations are reported in units of micrograms per liter ($\mu\text{g/l}$).